**First Semester - 15 SCH**
- CETT 1409 - DC-AC Circuits
- PSYC 1300 - Learning Framework
- ELMT 2333 - Industrial Electronics
- ELPT 1221 - Introduction to Electrical Safety and Tools
- MATH 2312 - Pre-Calculus Math

**Second Semester - 15 SCH**
- CETT 1349 - Digital Systems
- HYDR 1345 - Hydraulics and Pneumatics
- INTC 1341 - Principles of Automatic Control
- RBTC 1301 - Programmable Logic Controllers
- RBTC 1351 - Robotic Mechanisms

**Third Semester - 15 SCH**
- COSC 1301 - Introduction to Computing
- ELMT 2337 - Electronic Troubleshooting, Service and Repair
- ELPT 1351 - Electrical Machines
- ELPT 2319 - Programmable Logic Controllers I
- SPCH 1321 - Business & Professional Communication

**Fourth Semester - 15 SCH**
- DRAM 1301 - Introduction to Theater
- ELPT 2355 - Programmable Logic Controllers II
- ENGL 1301 - Composition I
- ENTC 1349 - Reliability and Maintainability
- INMT 2345 - Industrial Troubleshooting

** Marketable Skills**
- Acquire and evaluate information
- Interpret and communicate information
- Use computer software to maintain production
- Problem-solving
- OSHA - General Industries
- Maintain digital and solid state devices
- Repair and maintain fluid and pneumatic systems
- Monitor mechanical and electronic devices, circuits, and systems used in automated manufacturing or process control
- Electronic system maintenance, troubleshooting and repair
- Use programmable logic controllers
- Installation, maintenance and repair of automatic control systems
- Install, maintain and repair robotic mechanisms
- Installation, maintenance and repair of four-bar linkages, cams, gears and gear trains.

**Program Outcomes**
Maintain equipment in an industrial setting including the use of Programmable Logic Controllers, Variable Frequency Drives, hydraulic and pneumatic systems, communications between systems and mechanical systems.

**High School Endorsements**
Business and Industry

**Expected Salary**
**Texas wage data**: workers on average earn $117,650; 10% of workers earn $64,300 or less; 10% of workers earn $178,120 or more.

**Career Opportunities**
Electronics Technician; Electromechanical Technician; Maintenance Technician-Electrical and Mechanical; Industrial Electrician; Industrial Mechanic; Robotics Technician; Wind Turbine Technician; Field Service Technician; Manufacturing Systems Technician; Automation Technician; Process Technician; Power Plant Technician; Fluid Power Technician; Equipment Technician; Power Tool Repair Technician; Plant Engineering Systems Technician; Engineering Technician.

**Additional Education Opportunities**
Bachelor of Arts in Applied Science